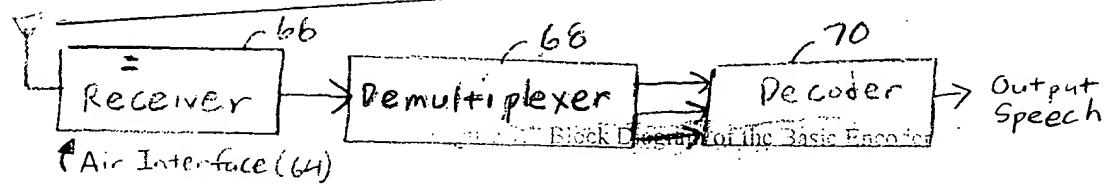
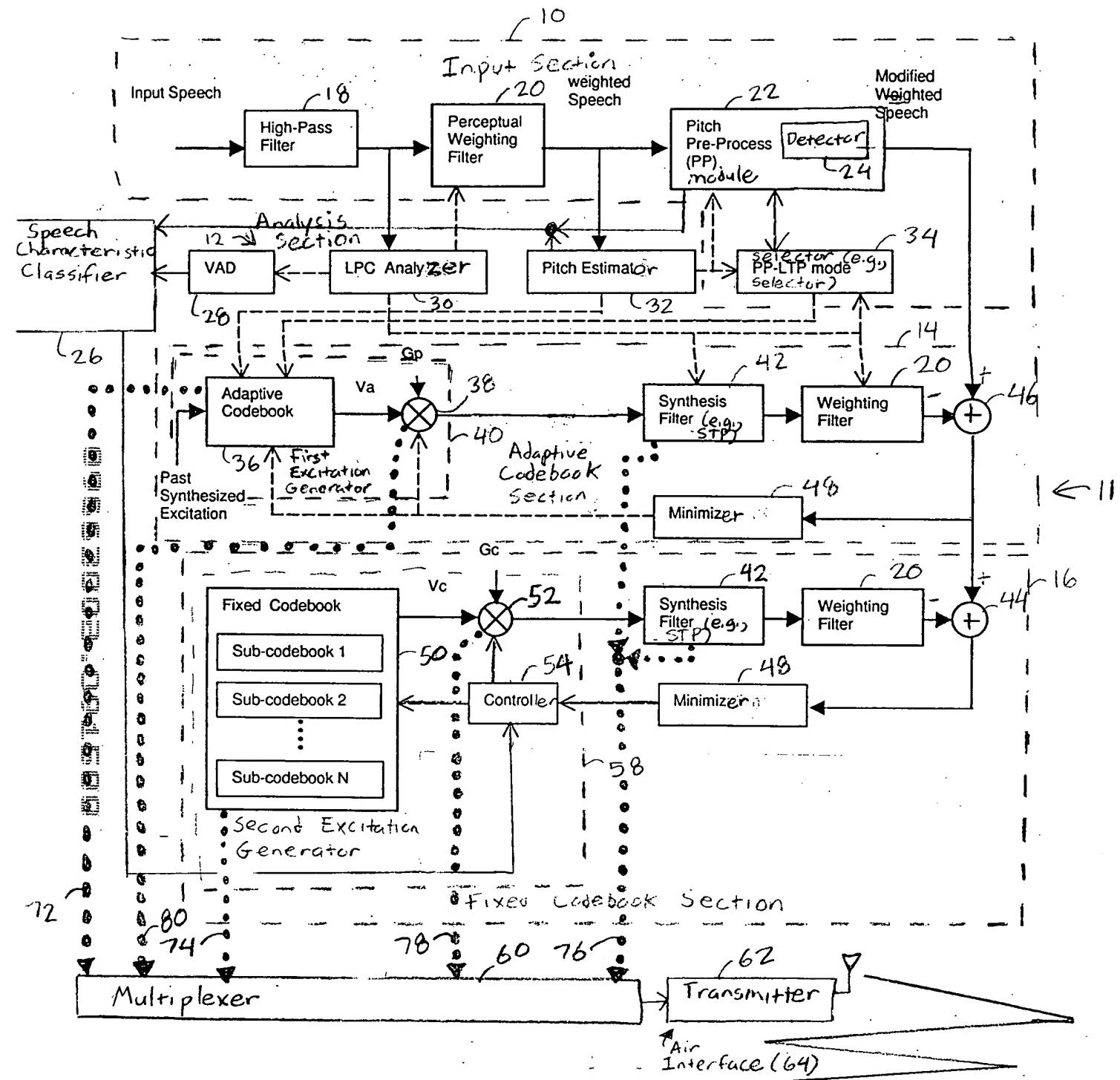


FIG. 1



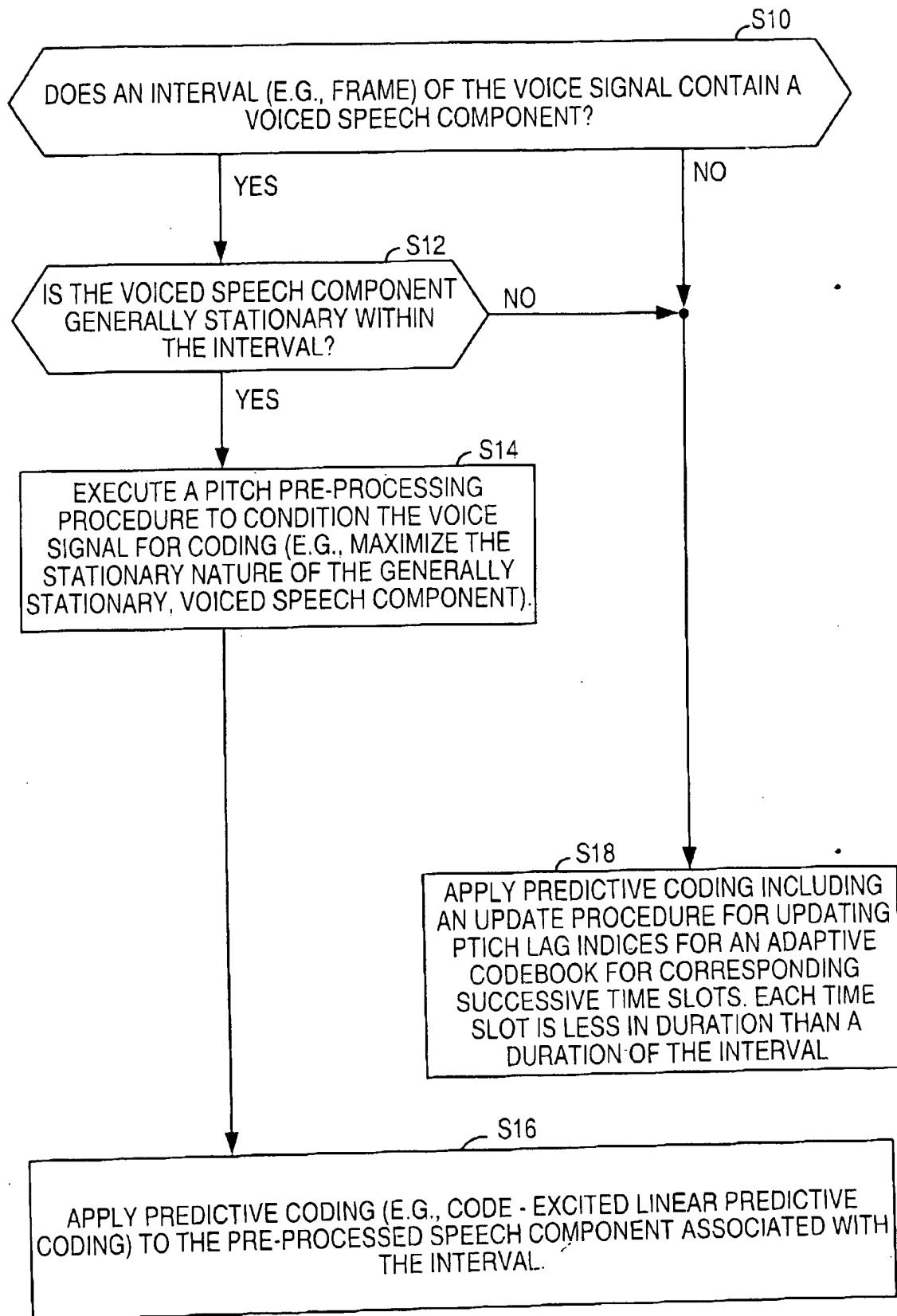


FIG. 2

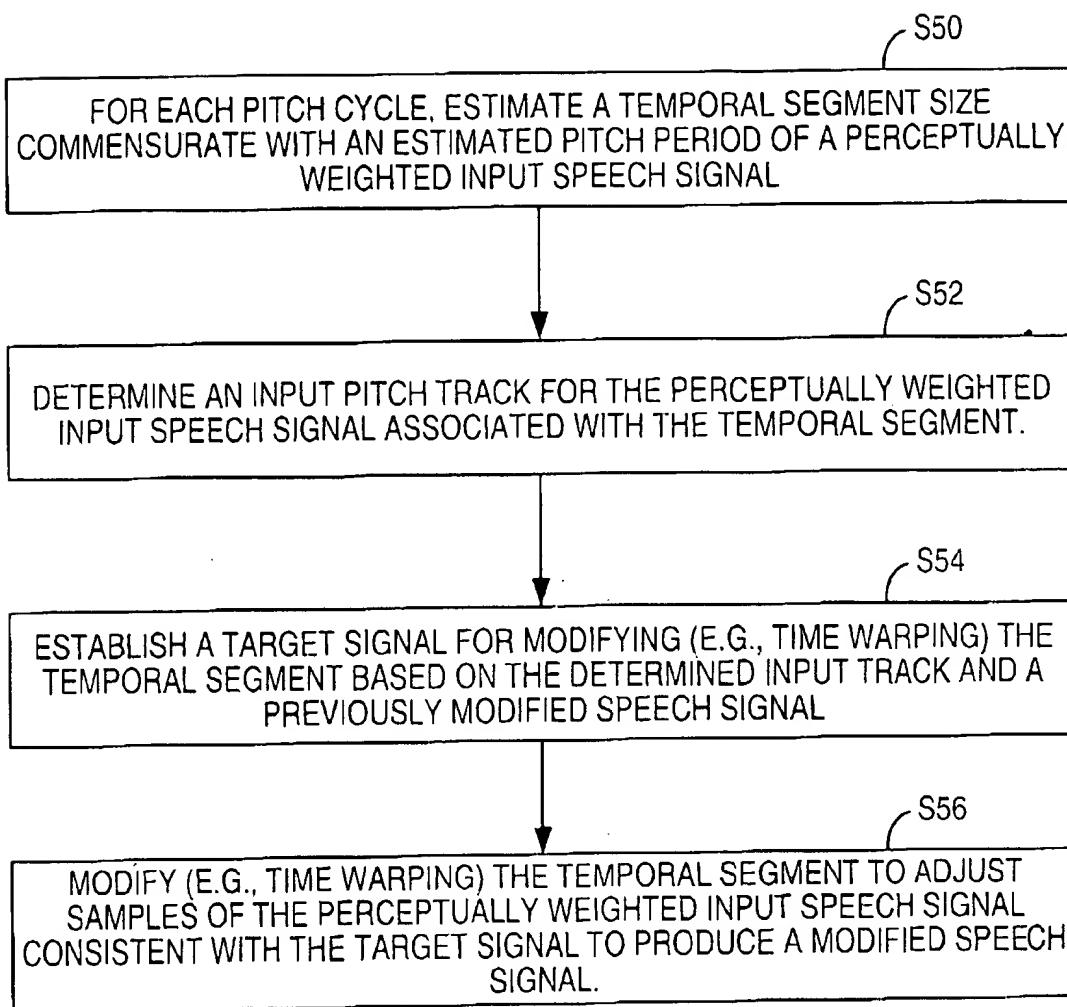


FIG. 3

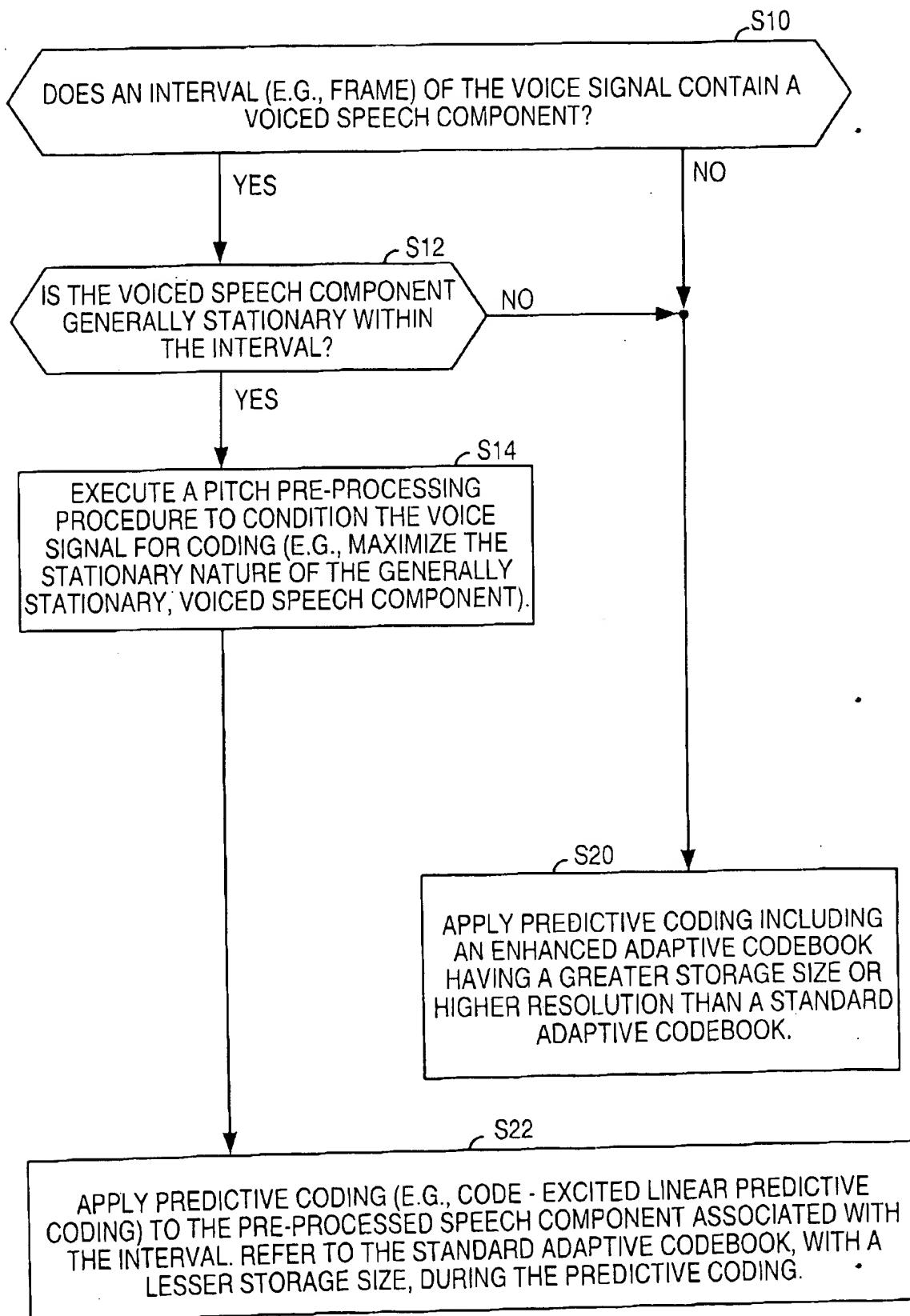


FIG. 4

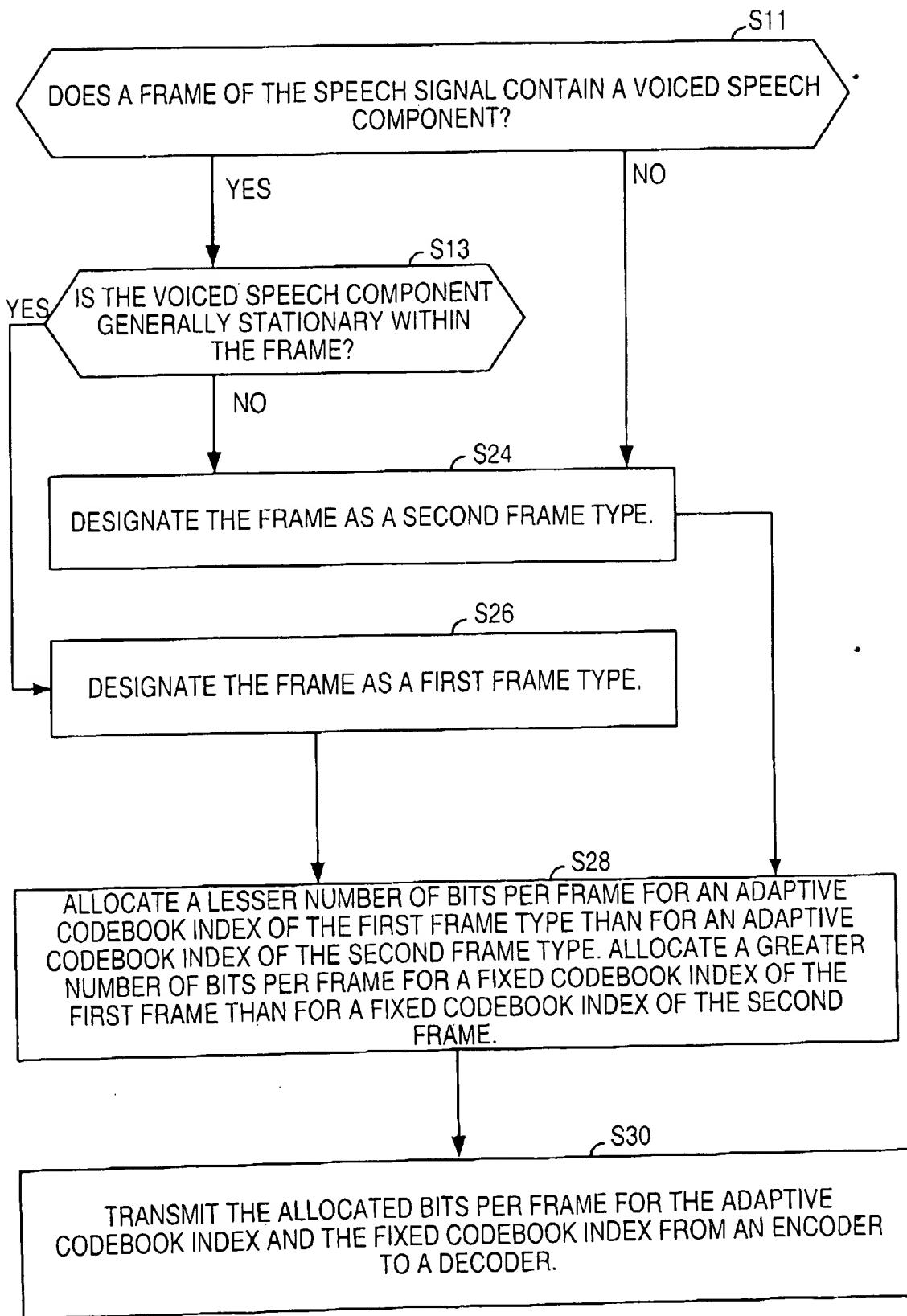


FIG. 5

ENCODING SCHEME	FIRST ENCODING ~99 SCHEME	SECOND ENCODING ~97 SCHEME
FRAME DURATION	20 ms	20 ms
FRAME TYPE	1ST FRAME TYPE (4 SUBFRAMES)	2ND FRAME TYPE (4 SUBFRAMES)
FILTER COEFFICIENT INDICATORS (E.G., LSFS)	1ST STAGE 2ND STAGE 3RD STAGE 4TH STAGE 7 BITS 6 BITS 6 BITS 6 BITS 25 BITS	INTERPOLATION 1ST STAGE 2ND STAGE 3RD STAGE 4TH STAGE 2 BIT 7 BITS 6 BITS 6 BITS 6 BITS 27 BITS
TYPE INDICATOR ~71		1 BIT
ADAPTIVE CODEBOOK ~72	8 BITS/FRAME	8 BITS
FILTER CODEBOOK ~74	8 - PULSE CODEBOOK INDEX	8.5, 8.5 BITS/SUBFRAME
	2^{30} ENT./SUBFRAME	26 BITS
	5 - PULSE CODEBOOK	2 ²¹ ENT./SUBFRAME
	5 - PULSE CODEBOOK	2 ²⁰ ENT./SUBFRAME
	5 - PULSE CODEBOOK	2 ²⁰ ENT./SUBFRAME
		2 ²² ENT./SUBFRAME
		88 BITS
ADAPTIVE CODEBOOK GAIN ~80	30 BITS/SUBFRAME	22 BITS/SUBFRAME
ADAPTIVE CODEBOOK GAIN ~74	4D PRE VQ/FRAME	7 BITS/SUBFRAME
FIXED CODEBOOK GAIN ~78	4D DELAYED VQ/FRAME	28 BITS
TOTAL BITS	170 BITS	170 BITS

FIG. 6

ENCODING SCHEME	THIRD ENCODING -103 SCHEME	FOURTH ENCODING -101 SCHEME
FRAME DURATION	20 ms	20 ms
FRAME TYPE	3RD FRAME TYPE (3 SUBFRAMES)	4TH FRAME TYPE (2 SUBFRAMES)
LSF'S FILTER COEFFICIENT INDICATORS (E.G., LSFS)	1 BIT 7 BITS 7 BITS 6 BITS 21 BITS	PREDICTOR SWITCH 1 ST STAGE 2 STAGE 3 RD STAGE
TYPE INDICATOR -71	1 BIT	1 BIT
ADAPTIVE CODEBOOK -72	7 BITS/FRAME	7 BITS
FIXED CODEBOOK INDEX	2 - PULSE CODEBOOK 74 3 - PULSE CODEBOOK	2 ¹² ENT./SUBFRAME 2 ¹² ENT./SUBFRAME 2 ¹³ ENT./SUBFRAME 2 ¹⁵ ENT./SUBFRAME
		15 BITS/SUBFRAME
80	13 BITS/SUBFRAME	39 BITS
ADAPTIVE CODEBOOK GAIN	3D PRE VQ/FRAME	4 BITS
FIXED CODEBOOK GAIN	3D DELAYED VQ/FRAME 78	8 BITS
TOTAL BITS	80 BITS	80 BITS

FIG. 7